



Anti-SPP1 (aa 148-257) polyclonal antibody (DPAB-DC2953)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.
Immunogen	SPP1 (NP_000573, 148 a.a. ~ 257 a.a) partial recombinant protein with GST tag. The sequence is SVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRG KDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVSR
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens (human)]
Official Symbol	SPP1
Synonyms	SPP1; secreted phosphoprotein 1; OPN; BNSP; BSPI; ETA-1; osteopontin; uropontin; nephropontin; SPP1/CALPHA1 fusion; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1);
Entrez Gene ID	6696
Protein Refseq	NP_000573
UniProt ID	A0A024RDE6
Chromosome Location	4q22.1
Pathway	BDNF signaling pathway; Direct p53 effectors; ECM-receptor interaction; Extracellular matrix organization
Function	cytokine activity; extracellular matrix binding; protein binding;